SONY

3-756-172-25 (1)

FM Stereo/AM PLL Synthesized Headphone Radio

SRF-HM55

Operating Instructions

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Sony Corporation ©1992 Printed in Japan

Owner's Record

The model and serial numbers are located at the left rear.
Record the serial number in the space provided below.
Refer to them whenever you call upon your Sony dealer regarding this product.

Model No. SRF-HM55 Serial No. _____

Features

- FM Stereo/AM PLL (Phase Loced Loop) synthesized headphone radio
- Adjustable double headbands designed to fit your head
- The AVLS (Automatic Volume Limiter System) to allow you to limit the maximum volume without degrading the sound quality
- Water-resistant for all-weather operation
- Capability to preset up to 5 stations in each band preset in the desired order
- Light reflector to reflect car lights at night for your safety

WARNING

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

INFORMATION
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

— Reorient or relocate the receiving antenna.
— Increase the separation between the equipment and receiver.
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
— Consult the dealer or an experienced radio/TV technician for help.

Specifications

Frequency range (Channel Step)
FM:87.5 – 108 MHz (0.1 MHz)
AM:530 – 1710 kHz (10 kHz)
FM:87.5 – 108 MHz (0.05 MHz)*
AM:531 – 1710 kHz (9 kHz)
Headphone type
Dynamic
Power output
18 mW + 18 mW (at 10% harmonic distortion)
Power requirement
3 V DC
two size AA (R6) batteries
Battery life
Approx. 33 hours. with Sony SUM-3 (NS) batteries
Mass Approx. 227 g (8 oz) including batteries

*The frequency display is raised or lowered by steps of 0.1 MHz. (Example: Frequency 88.05 MHz is displayed as "88.0 MHz".)

Design and specifications subject to change without notice.

Precautions

- Do not open the unit. Refer servicing to qualified personnel only.
- Operate the unit on 3 V DC with two size AA (R6) batteries.
- When the unit is not to be used for a long period of time, remove the batteries to avoid unit damage from battery leakage.
- Avoid exposure to temperature extremes, direct sunlight, moisture, sand, dust, or mechanical shock. Never leave in a car parked in the sun.
- Should any liquid or solid object fall into the unit, remove the batteries, and have the unit checked by qualified personnel before operating it any further.
- Clean the unit with a soft cloth dampened with a mild detergent solution. Never use abrasive cleansers or chemical solvents, as they may mar the unit.
- In vehicles or buildings, radio reception may be difficult or noisier. Try listening near a window.
- If there is lightning when you are using the unit, take off the headphone receiver immediately.

Do not immerse in water

This product is designed to be water-resistant, but should not be immersed in water or come in continuous contact with water.
Before installing the batteries, be sure to wipe off drops of water on the unit. Never use an electric hair dryer while wearing the headphones.

Note on AM channel step

The AM channel step differs depending on areas. The channel step of this unit is factory-set to 10 kHz. You can change the channel step (See "Changing AM channel step".)

Area	Channel Step
North American countries	10 kHz
Other countries	9 kHz

Notes on headphones

Road Safety
Do not use headphones while driving, cycling, or operating any motorized vehicle. It may create a traffic hazard and is illegal in many areas. It can also be potentially dangerous to play your headsets at high volume while walking, especially at pedestrian crossings. You should exercise extreme caution or discontinue use in potentially hazardous situations.

Preventing hearing damage
Avoid using headphones at high volume. Hearing experts advise against continuous, loud and extended play. If you experience a ringing in your ears, reduce volume or discontinue use.

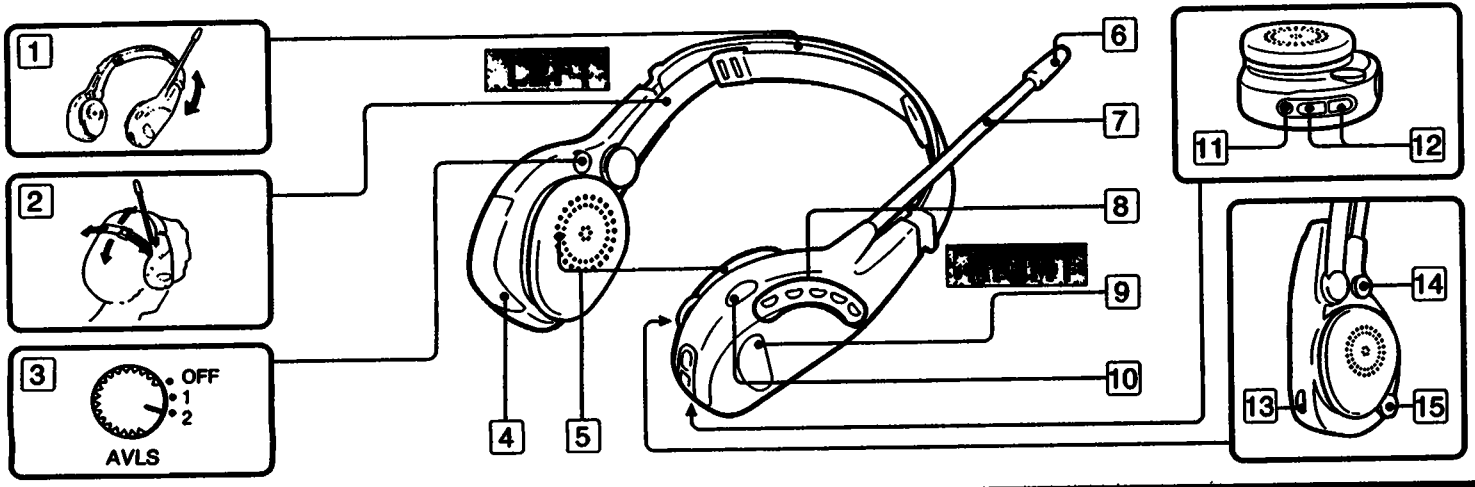
Caring for others
Keep the volume at a moderate level. This will allow you to hear outside sounds and to be considerate to the people around you.

If you have any questions or problems concerning your unit that are not covered in this manual, please consult the nearest Sony dealer.

Troubleshooting Guide

Trouble	Causes
Sound is not heard at all.	• Incorrect polarity of batteries. • Weak batteries. • VOL is turned down completely.
Very weak or interrupted sound, distorted sound when volume is turned up, or unsatisfactory reception.	• Weak batteries. • Incorrect tuning. • Weak signal. ➡ When in a vehicle or in a building, listen near a window. • SENS is set to LOCAL. ➡ Set it to DX.
Presetting cannot be made.	• Incorrect presetting. ➡ When storing the station, press ENTER before pressing the desired preset button.
The preset station cannot be received.	• Incorrect preset button has been pressed. • The preset station has been cleared when replacing batteries. (Batteries should be replaced within three minutes.)
No display even when POWER is on.	• Weak batteries.

Locations of Controls



1 Headband
Adjust it to your head.

2 Support band

3 AVLS selector
When this selector is set to either position 1 or 2, (around 95 dB, 85 dB respectively) the volume will be kept at a moderate level without degradation of the sound quality, even if you attempt to turn the volume up higher.
When this selector is turned off, you will be able to enjoy the full volume capability of your radio.

4 Battery compartment

5 Driver units

6 Light reflector
This reflector reflects car lights at night for your safty.

7 FM flexible antenna
Use for FM reception.

8 Preset buttons
These buttons can preset up to 5 stations in each band.

9 Display window
The indicator displays the power remaining in the batteries, the frequency, the preset number and the time.

10 Band button
Use for changing FM and AM.

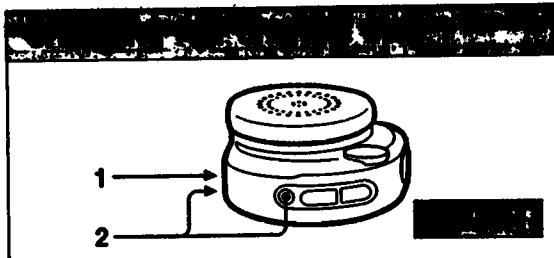
11 ENTER/CLOCK button
Use for storing station and setting clock.

12 TUNE (tuning)/TIME SET (+ and −) buttons
Use for tuning the frequency and setting time.

13 POWER button

14 FM SENS (Sensitivity) DX/LOCAL selector

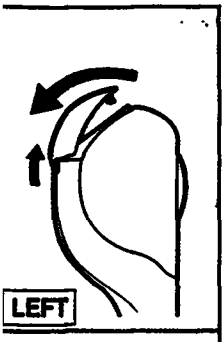
15 VOL (Volume) control



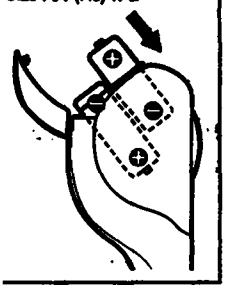
1 Turn off the power by pressing the POWER button, if it is turned on.
2 While pressing the ENTER/CLOCK button, keep pressing the POWER button for more than 5 seconds. The AM tuning interval has been changed. If you proceed step 2 again, the interval changes again.

Note
If you proceed with the steps above, the clock and the preset memory are canceled, and "AM 12:00" flashes.

Installing Batteries



Size AA (R6) x 2



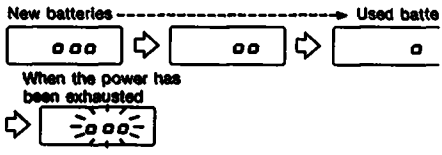
When to replace the batteries
When the batteries become weak, sound becomes weak or the stereo sound becomes monaural. When the batteries are run down completely, the power is turned off and the " ooo " in the display window flashes. When the power is turned on with the indication flashing, the power is turned off right awa While the " ooo " starts flashing, replace both batteries with new ones. After the batteries are replaced, turn the power on again to stop the flashin of the indication.

When replacing the batteries
Replace the batteries within about 30 seconds. If you do not replace them within 30 seconds, the preset stations may be canceled, and "AM 12:00" flashes in the display window.
For battery life, see "Specifications".

To avoid damage from battery leakage and corrosion
Remove the batteries when you do not use the unit for a long time.

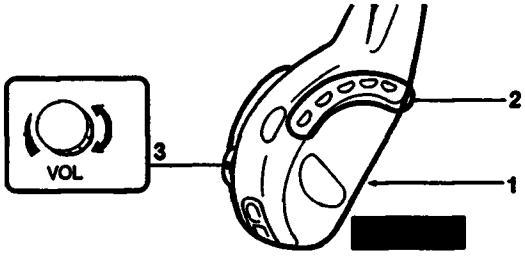
When the batteries are removed for a long time
Preset stations are canceled and "AM 12:00" is displayed.
Preset stations again and reset the clock.

The indication of the power remaining in the battery



When you turn on the unit, the power remaining in the battery is displayed for about one second and a half. The unit displays one of the four indications depending on the power remaining in the battery.

Listening to a Preset Station



1 Press the POWER button.

2 Press the desired preset button.

3 Adjust the VOL (volume).

On FM SENS DX/LOCAL Selector

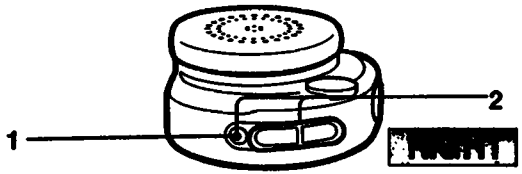
DX: Normally set it to this position and the radio operates in stereo mode for FM stereo programs and will be automatically switched to mono for non-stereo programs.

LOCAL: Set it to this position, if a very strong station signal causes noise or if multipath* occurs. The reception will be more stable and noise will be reduced.

* Multipath, which often occurs in a street with big buildings or in a mountainous area, is reflection of signals that reach the receiver from structures or hills considerably later than direct signals. A multipath condition brings about high-frequency noise, distortion, and a poor stereo effect in FM reception.

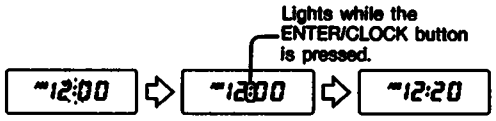
Setting the Clock

Set the clock or display time when the radio is turned off.



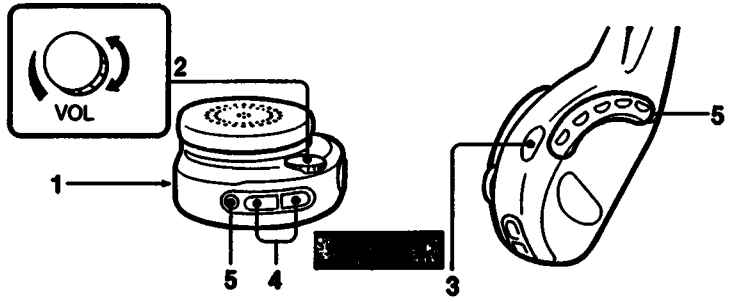
1 When you insert batteries for the first time, digits flash in the display window.
To stop flashing, press the ENTER/CLOCK button.
AM 12:00 = midnight
PM 12:00 = noon

2 While pressing the ENTER/CLOCK button, press the TUNE/TIME SET buttons ("+" or "−") to set the clock to the current time. Each time the TUNE/TIME SET button is pressed, the digits move forward or back by one.
When you keep the button pressed, the digits change rapidly.



3 When you release the ENTER/CLOCK button, the clock starts to operate and ":" of the time indication flashes.
If you release the ENTER/CLOCK button simultaneously with the time signal as it sounds, the clock starts from zero second.

Tuning in and Presetting Stations



1 Press the POWER button.

2 Adjust the VOL (volume).

3 Select a desired band.

4 Tune in a desired station.
+: To tune in a higher frequency.
−: To tune in a lower frequency.

5 Store the station.
While keeping the ENTER/CLOCK button pressed, press the desired preset number button. Then the preset number appears in the display window.

Repeat these steps for each station to be preset.
Up to 5 stations in each band can be preset.
To turn off the radio, press the POWER button.

To change the preset station
Preset a new station to a desired preset button; the station previously preset for that button will be erased.

SONY

TRANSISTOR RADIO

LIMITED WARRANTY

SONY ELECTRONICS INC. ("SONY") warrants this product against defects in material or workmanship, as follows:

1. For a period of 1 year from the date of purchase, SONY will pay the labor charges of your SONY authorized service facility to repair the defective product. After this 1 year period, you must pay for all labor charges.
2. In addition, SONY will supply, at no charge, new or rebuilt replacements for defective parts for a period of 1 year from the original date of purchase.

To obtain warranty service, you must take the product, or deliver the product prepaid, to a SONY authorized service facility.

This warranty does not cover cosmetic damage, and damage due to acts of God, accident, misuse, abuse, or negligence to this product including antenna. This warranty is valid only in the United States of America.

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the warranty period must be presented to obtain warranty service.

This warranty is valid only if the serial number appears on the product.

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. SONY SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

For your convenience, Sony Electronics Inc. has established the Customer Information Center to supply you with product or service information.

Important: If returning product for service, please see reverse side of this card for your nearest Sony Service Center.

SONY CUSTOMER INFORMATION CENTER
201-930-SONY (7669)
714-821-SONY (7669)
708-250-SONY (7669)

or write to:

Sony Customer Information Center
Sony Drive, Mail Drop #T1-11
Park Ridge, NJ 07656

SONY ELECTRONICS INC.
Sony Drive, Park Ridge, New Jersey 07656

Sony Service Centers

Arizona

Phoenix
2240 North Scottsdale Road
Tempe, AZ 85281
(602) 948-7669

California

Burbank (Los Angeles area)
4100 Riverside Drive, Suite A
Burbank, CA 91506
(818) 842 7669

Costa Mesa (Orange County area)
2129 Bristol Street South
Costa Mesa, CA 92626
(714) 549-4833

San Bruno (San Francisco area)
781 Cowles Plaza
San Bruno, CA 94066
(415) 871-2810

San Diego
6975 Complex Drive
San Diego, CA 92123
(619) 279-2724

San Jose
1350 Old Oakland Road
San Jose, CA 95112
(408) 280-7669

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Denver
Havana Plaza Center
10740 East 49th Avenue
Aurora, CO 80014
(303) 755-7669

Florida

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2950 North 29th Terrace
Hollywood, FL 33020
(305) 920-5800

Georgia

Atlanta
120 Interstate North Parkway East
Suite 410
Atlanta, GA 30339
(404) 953-5871

Hawaii

Honolulu
950 Mapunapuna Street
Honolulu, HI 96819
(808) 834-6632

Illinois

Chicago
1730 West Fullerton, Suite 4
Riverpoint Shopping Center
Chicago, IL 60614
(312) 929-5566

Niles (Chicago NW)
7840 North Caldwell Avenue
Niles, IL 60648
(708) 647-2400

Westmont (Chicago SW)
6036-38 South Cass Avenue
Westmont, IL 60559
(708) 969-0049

Kansas

Kansas City
11712 West 95th Street
Overland Park
KS 66214
(913) 888-3622

Maryland (Washington D.C.)

Washington D.C.
5300 Sunnyside Avenue
Beltsville, MD 20705
(301) 595-1818

Massachusetts

Boston
390 University Avenue
128 Westwood Industrial Center
Westwood, MA 02090
(617) 329-5130

Michigan

Detroit
43304 Seven Mile Road
Novi, MI 48050
(313) 344-4044

Minnesota

Minneapolis
4300 W. 36 1/2 Street
St. Louis Park, MN 55416
(612) 920-5000

Missouri

St. Louis
12463-D Natural Bridge Road
Bridgeton, MO 63044
(314) 291-2301

New Jersey

Mahwah (NY. Metropolitan Area)
300 Route 17 South
Mahwah, NJ 07430
(201) 529-1656

Union
Bradlee Shopping Center
US Highway 22 At Morris Avenue
Union, NJ 07083
(201) 687-5666

Ohio

Cleveland
6370 York Road
Parma Heights, OH 44130
(216) 845-7669

Pennsylvania

Philadelphia
681 Park Avenue
King of Prussia, PA 19406
(215) 768-5050

Pittsburgh
Wexford Plaza
10610 Perry Highway (Rt. 19)
Wexford, PA 15090
(412) 935-5466

Texas

Dallas
401 Preston Valley Shopping Center
Dallas, TX 75230
(214) 661-3537

Houston
7439 Westheimer
Houston, TX 77063
(713) 783-5761

Washington

Seattle
535 Ridge
Seattle, WA 98108
(206) 762 6500

Sony District Service Offices

Western Zone

Western District
Sony Service Company
2129 Bristol Street South
Costa Mesa, CA 92626
(714) 549-4836

Northwestern District
Sony Service Company
1289 Old Oakland Road
San Jose, CA 95112
(408) 280-7676

Southwestern District
Sony Service Company
3201 Premier Dr., Suite 100
Irving, TX 75063
(214) 550-5270

Central Zone

Mid-West District
Sony Service Company
1200 N. Arlington Heights Rd.
Itasca, IL 60143
(708) 773-7666

East Central District
Sony Service Company
26200 Town Center Drive
Suite 300 Novi, MI 48050
(313) 347-2291

Eastern Zone

Eastern District
Sony Service Company
300 Route 17 South
Mahwah, NJ 07430
(201) 529-1616

Mid-Atlantic District
Sony Service Company
681 Park Avenue
King of Prussia, PA 19406
(215) 768-5045

Southeastern District
Sony Service Company
120 Interstate North Parkway East
Suite 414
Atlanta, GA 30339
(404) 953 5858